

NSLS ENVIRONMENTAL MANAGEMENT SYSTEM

OPERATIONAL CONTROLS FORM

OPERATIONAL CONTROL FOR SIGNIFICANT ENVIRONMENTAL ASPECTS: <u>MIXED RESIN BED REGENERATION: HAZARDOUS AND INDUSTRIAL WASTE GENERATION; LIQUID DISCHARGE; CHEMICAL STORAGE (SPILLS & BACKFLOW).</u>	COMPLETED BY: <u>A. ACKERMAN / D. BAUER</u> DATE: <u>DECEMBER 23, 2003</u> REV 2 PAGE 1 OF 3
1. Operation: Mixed Resin Bed Regeneration: NSLS-461-MRB	
2. Activities: <div style="margin-left: 40px;"> 1) Storage of chemicals. 2) Dispensing and use of chemicals. 3) Characterization and disposal of chemicals and wastewater. 4) Spent resin management. </div>	
3. Operational Controls: <div style="margin-left: 20px;"> 1. Tier 1 Inspection. 2. Chemical Management System. 3. Operational Control Form 4. Secondary containment (trays, cabinets, etc...) </div> <div style="margin-left: 20px;"> 5. NSLS procedure: Test Resistivity and Re-charge High Pressure Copper Water System. (LS-M-0004) 6. NSLS ES&H Policies and Requirements Manual <ul style="list-style-type: none"> • LS-ESH-PRM-7.0.0, Hazardous Waste Management • LS-ESH-PRM-9.0.0, Local Emergency Plan 7. Subject Areas <ul style="list-style-type: none"> • Hazardous Waste Management • Liquid Effluent • Spill Response. • Drinking Water • Pollution Prevention 8. Training as identified in the BTMS. <ul style="list-style-type: none"> • Read and Sign Training Form "Regeneration of Mixed Bed Dionizer for NSLS Process Water Systems" for Utilities Engineer and Utilities Group. 9. Backflow Devices on the resin bed system - Tested and maintained by Plant Engineering's Operation and Maintenance Group. </div>	
4. Maintenance Plan: Not Applicable	
5. Actions to be Taken if Controls Fail: Follow the Local Emergency Plan, located in the NSLS ES&H Policies and Requirements	

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Manual, or specific procedures posted in work area, if applicable.	
6. Records: <ol style="list-style-type: none"> 1) Tier I database 2) Process Assessment Form, PAF 461 3) Chemical Management System database. 4) Operational Control Form. 5) LS-M-0004 6) Analytical results for ion exchange regeneration wastes. 7) Waste disposal forms: Waste Management Facility. 8) Brookhaven Training Management System (BTMS) records. 9) Signed Read and Sign training forms. 	
7. Responsibilities:	
Name	Responsibility
NSLS Safety Engineer	<ul style="list-style-type: none"> Complete Tier 1 inspections. Track corrective actions. Maintain supply of spill control materials. Review analytical data and determine waste disposal requirements.
NSLS Water Systems Engineer	<ul style="list-style-type: none"> Assure proper use of secondary containment and Chemical Management System. Assure implementation of mixed bed regeneration and waste disposal requirements. Arrange environmental sampling through the ECR.
NSLS ECR	<ul style="list-style-type: none"> Development and maintenance of OCF forms and PAFs. Provide staff support to assure work is done is

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	compliance with relevant regulations. <ul style="list-style-type: none"> Assures that samples taken for waste characterization are collected and handled following proper Lab procedures.
NSLS Mechanical Engineering Group Technicians	<ul style="list-style-type: none"> Adhere to BNL waste disposal requirements. Act to control and report chemical spills.
NSLS Training Coordinator	<ul style="list-style-type: none"> Maintains training database, tracks and reports training status to staff.
8. Training: Personnel have complete Job Training Assessments (JTA's)	